

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 690022.525C7	APPLICATION NO. 09/919,602
OCT 03 2001 U.S. PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT <i>(See General Information necessary)</i>		APPLICANTS Sudhakar Kasina et al.			
		FILING DATE July 30, 2001	GROUP ART UNIT 1619 1616		

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	AA	4,195,073	03/25/80	Newman	424	1	
AB	AB	4,217,339	08/12/80	Bohn et al.			
AC	AC	4,223,002	09/16/80	Newman	424	1	
AD	AD	4,348,316	09/07/82	Bohn et al.			
AE	AE	4,410,688	10/18/83	Denkewalter et al.			
AF	AF	4,455,290	06/19/84	Olexa et al.			
AG	AG	4,468,345	08/28/84	Bohn et al.			
AH	AH	4,507,229	03/26/85	Bohn			
AI	AI	4,507,466	03/26/85	Tomalia et al.			
AJ	AJ	4,518,584	05/21/85	Mark et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AK	AU-A-14027/88	09/29/88	AU		
AL	CA 2,021,147	01/16/91	Canada		
AM	CA 2,032,751	06/21/91	Canada		
AN	CA 2,040,722 A1	10/19/91	Canada		
AO	DE 38 10 331 A1	10/05/89	DE (+ Derwent Abstract Acc. No. 89/293724/198941)		X

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	Alderson, "Scintigraphic Diagnosis of Pulmonary Embolism: Where Do We Go From Here?," <i>Radiology</i> 193: 22-23, 1994.
AQ	Baldwin et al., "Purification and Partial Amino Acid Sequence of Annexin V from Porcine Gastric Mucosal Membranes," <i>Comp. Biochem. Physiol.</i> 100B(4): 661-665, 1991.
AR	Barrett et al., "RP431 A Potential Thrombus Imaging Agent," <i>The Journal Of Nuclear Medicine</i> 36(5): p. 16P, Abstract No. 55, 1995.

EXAMINER	Hartley	DATE CONSIDERED
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OCT 03 2001  
U.S. PATENT DOCUMENTS

*EXAMINER INITIAL & TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
X	AA 4,558,120	12/10/85	Tomalia et al.			
W	AB 4,568,737	02/04/86	Tomalia et al.			
Q	AC 4,571,336	02/18/86	Houck et al.			
Z	AD 4,587,329	05/06/86	Tomalia et al.			
D	AE 4,592,863	06/03/86	Bohn et al.			
V	AF 4,594,328	06/10/86	Bohn			
Y	AG 4,673,562	06/16/87	Davison et al.			
Q	AH 4,732,891	03/22/88	Maki et al.			
H	AI 4,736,018	04/05/88	Reutelingsperger			
X	AJ 4,746,505	05/24/88	Jones et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
X	AK EP 055 028 A1	06/30/82	EPO		
W	AL EP 063 002 B1	10/20/82	EPO		
Q	AM EP 213 175 B1	07/25/90	EPO		
V	AN EP 351 826 A2	01/24/90	EPO		
Y	AO EP 432 988 A1	06/19/91	EPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

X	AP	Bautovich et al., "Detection of Deep Venous Thrombi and Pulmonary Embolus with Technetium-99m-DD-3B6/22 Anti-fibrin Monoclonal Antibody Fab' Fragment," <i>The Journal of Nuclear Medicine</i> 35(2): 195-202, 1994.
W	AQ	Biessen et al., "Synthesis of Cluster Galactosides with High Affinity for the Hepatic Asialoglycoprotein Receptor," <i>J. Med. Chem.</i> 38: 1538-1546, 1995.
Q	AR	Bryson et al., "Protecting Groups in the Preparation of Thiolate Complexes of Technetium," <i>Inorganic Chemistry</i> 29(16): 2948-2951, 1990.

EXAMINER	Hartley	DATE CONSIDERED	7/25/2012
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**U.S. PATENT DOCUMENTS**

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AA	4,746,731	05/24/88	Bohn			
AB	4,874,743	10/17/89	Wallner et al.			
AC	4,879,224	11/07/89	Wallner et al.			
AD	4,897,255	01/30/90	Fritzberg et al.			
AE	4,937,324	06/26/90	Fujikawa et al.			
AF	4,950,646	08/21/90	Wallner et al.			
AG	4,959,314	09/25/90	Mark et al.			
AH	4,965,392	10/23/90	Fritzberg et al.			
AI	4,990,597	02/05/91	Löbermann et al.			
AJ	5,026,913	06/25/91	McBride et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AK	EP 668 353 A1	08/23/95	EPO		
AL	EP 668 354 A1	08/23/95	EPO		
AM	GB 1 555 197	11/07/79	GB		
AN	GB 2 212 502 A	07/26/89	GB		
AO	WO 86/04606	08/14/86	PCT		

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	Butler et al., "Accurate Detection of Lower Limb Deep Venous Thrombosis Using a New Radiolabeled Thrombus Specific Agent," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 89P, Abstract No. 362, 1995.
AQ	Cerqueira et al., "In Vivo Thrombus labeling with Annexin-V, A Human Protein with High Affinity for Activated Platelets," <i>The Journal Of Nuclear Medicine</i> 32(5):p.928, Abstract No. 82, 1991.
AR	Cerqueira et al., "Noninvasive Arterial Thrombus Imaging with <sup>99m</sup> Tc Monoclonal Antifibrin Antibody," <i>Circulation</i> 85(1): 293-304, 1992.

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA 5,037,630	08/06/91	Fritzberg et al.			
	AB 5,055,561	10/08/91	Packard et al.			
	AC 5,071,636	12/10/91	Yamauchi et al.			
	AD 5,075,099	12/24/91	Srinivasan et al.			
	AE 5,080,884	01/14/92	McBride et al.			
	AF 5,081,019	01/14/92	Wallner et al.			
	AG 5,097,019	03/17/92	Löbermann et al.			
	AH 5,104,638	04/14/92	Nosco			
	AI 5,106,951	04/21/92	Morgan, Jr. et al.			
	AJ 5,112,954	05/12/92	Abrams et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
	AK WO 86/06839	11/20/86	PCT		
	AL WO 89/10140	11/02/89	PCT		
	AM WO 91/07187	05/30/91	PCT (WPI Abstract. No. 91-149572 only)		
	AN WO 91/09628	07/11/91	PCT		
	AO WO 91/17168	11/14/91	PCT		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Crumpton, "Protein Terminology Tangle," <i>Nature</i> 345: p. 212, 1990.
	AQ	De Bruyn et al., "Imaging of Thrombi in Pulmonary Arteries with Enzymatically Inactivated Radiolabeled Tissue-Type Plasminogen Activator," <i>Circulation</i> 90(4, Part 2):p. I-369, 1994.
	AR	De Bruyn et al., "Visualization of Thrombi in Pulmonary Arteries with Radiolabeled, Enzymatically Inactivated Tissue-Type Plasminogen Activator." 1995, vol. 92, No. 5, pp. 1320-1325.

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<i>A</i>	AA	5,120,526	06/09/92	Fritzberg et al.			
<i>A</i>	AB	5,162,505	11/10/92	Dean et al.			
<i>A</i>	AC	5,164,176	11/17/92	Gustavson et al.			
<i>A</i>	AD	5,179,081	01/12/93	Iwasaki et al.			
<i>A</i>	AE	5,202,419	04/13/93	Grundmann et al.			
<i>A</i>	AF	5,225,537	07/06/93	Foster			
<i>A</i>	AG	5,242,679	09/07/93	Fritzberg et al.			
<i>A</i>	AH	5,250,666	10/05/93	Gustavson et al.			
<i>A</i>	AI	5,252,713	10/12/93	Morgan et al.			
<i>A</i>	AJ	5,258,497	11/02/93	Reutelingsperger et al.			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>A</i>	AK	WO 92/19279	11/12/92	PCT		
<i>A</i>	AL	WO 94/07537	04/14/94	PCT		
<i>A</i>	AM	WO 94/09036	04/28/94	PCT		
<i>A</i>	AN	WO 94/19024	09/01/94	PCT		
<i>A</i>	AO	WO 94/22490	10/13/94	PCT		

**OTHER PRIOR ART** (*Including Author, Title, Date, Pertinent Pages, Etc.*)

<i>A</i>	AP	Delpassand et al., "Synthesis Biodistribution and Estrogen Receptor Scintigraphy of In-111 DTPA Tamoxifen Analogue," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 161P, Abstract No. 732, 1995.
<i>A</i>	AQ	Demange et al., "Annexin V: The Key to Understanding Ion Selectivity and Voltage Regulation?," <i>TIBS</i> 19: 272-276, 1994.
<i>A</i>	AR	Dewhurst et al., "Noninvasive Imaging of Left Atrial Thrombi with Intravenous Administration of Radiolabeled Annexin V," <i>Journal of the American College of Cardiology</i> , vol. O, p. 424A, 1994.

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,279,811	01/18/94	Bergstein et al.			
	AB	5,288,623	02/22/94	Zenno et al.			
	AC	5,296,467	03/22/94	Reutelingsperger			
	AD	5,298,489	03/29/94	Wallner et al.			
	AE	5,314,992	05/24/94	Guyre et al.			
	AF	5,320,950	06/14/94	Grundman et al.			
	AG	5,330,738	07/19/94	Nosco			
	AH	5,332,678	06/21/94	Morgan, Jr. et al.			
	AI	5,371,184	12/06/94	Rajagopalan et al.			
	AJ	5,380,646	01/10/95	Knight et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	WO 95/34315	12/21/95	PCT		
	AL	WO 96/17613	06/13/96	PCT		
	AM	WO 96/17618	06/13/96	PCT		
	AN					
	AO					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Dewhurst et al., "Tc-99m annexin V uptake by left atrial and coronary thrombi," <i>Journal of Nuclear Medicine</i> 35(5): 254-255, 1994.
	AQ	Diggles et al., "Biodistribution and Dosimetry of Tc-99m P280: A Phase I Study," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 183P, Abstract No. 827, 1995.
	AR	Fernandez et al., "The Structure of Anchorin CII, a Collagen Binding Protein Isolated from Chondrocyte Membrane," <i>J. Biolog. Chem.</i> 236(12): 5921-5925, 1988.

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<i>D</i>	AA	5,484,711	01/16/96	Wallner et al.			
<i>D</i>	AB	5,589,395	12/31/96	Romisch et al.	436	71	
<i>D</i>	AC	5,616,690	04/01/97	Axworthy et al.	530	363	
<i>D</i>	AD	5,627,036	05/06/97	Reutelingsperger	435	7.21	
<i>D</i>	AE	5,632,986	05/25/97	Tait et al.	424	9.464	
<i>D</i>	AF	5,645,815	07/08/97	Dean et al.	424	1.69	
<i>D</i>	AG	5,654,272	08/05/97	Dean	514	12	
	AH						
	AI						
	AJ						

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					YES	NO
	AK					

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

<i>D</i>	AL	Findeis, "Stepwise Synthesis of a GaINAc-containing Cluster Glycoside Ligand of the Asialoglycoprotein Receptor," <i>Int. J. Peptide Protein Res.</i> 43: 477-485, 1994.
<i>D</i>	AM	Flaherty et al., "Placental Anticoagulant Protein-I: Measurement in Extracellular Fluids and Cells of the Hemostatic System," <i>The Journal of Laboratory and Clinical Medicine</i> 115(2): 174-181, 1990.
<i>D</i>	AN	Fraker et al., "Protein and Cell Membrane Iodinations with a Sparingly Soluble Chloroamide, 1, 3, 4, 6-tetrachloro-3a, 6a-diphenylglycoluril," <i>Biochemical and Biophysical Research Communications</i> 80(4): 849-857, 1978.
<i>D</i>	AO	Fritzberg et al., "Specific and Stable Labeling of Antibodies with Technetium-99m with a Diamide Dithiolate Chelating Agent," <i>Proc. Natl. Acad. Sci. USA</i> 85: 4025-4029, 1988.
<i>D</i>	AP	Funakoshi et al., "Human Placental Anticoagulant Protein: Isolation and Characterization," <i>Biochemistry</i> 26: 5572-5578, 1987.

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					YES	NO
	AB					

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

Q	AC	Funakoshi et al., "Primary Structure of Human Placental Anticoagulant Protein," <i>Biochem.</i> 26: 8087-8092, 1987.
Q	AD	Galli et al., "A Radiopharmaceutical for the Study of the Liver: <sup>99m</sup> Tc-DTPA-Asialo-Orosomucoid, I: Radiochemical and Animal Distribution Studies," <i>J. Nucl. Med. Allied Sci.</i> 32(2): 110-116, 1988.
Q	AE	Grundman et al., "Characterization of cDNA Encoding Human Placental Anticoagulant Protein (PP4): Homology with the Lipocortin Family," <i>Proc. Natl. Acad. Sci.</i> 85: 3078-3712, 1988.
Q	AF	Habeeb, "Determination of Free Amino Groups in Proteins by Trinitrobenzenesulfonic Acid," <i>Analytical Biochemistry</i> 14: 328-336, 1966.
Q	AG	Haensler et al., "Synthesis and Characterization of a Trigalactosylated Bisacridine Compound to Target DNA to Hepatocytes," <i>Bioconjugate Chem.</i> 4: 85-93, 1993.
Q	AH	Harris et al., "Design and Synthesis of Radiolabeled GP IIb/IIIa Receptor Antagonist as Potential Thrombus Imaging Agents," <i>The Journal Of Nuclear Medicine</i> 35(5):9. 245P, Abstract No. 1005B, 1994.
Q	AI	Hashida et al., "Hepatic targeting of drugs and proteins by chemical modification," <i>Journal of Controlled Release</i> 36(1): 99-107, 1995.
b	AJ	Iwasaki et al., "Structure and Expression of cDNA for an Inhibitor of Blood Coagulation Isolated from Human Placenta: A New Lipocortin-like Protein," <i>J. Biochem.</i> 102: 1261-1273, 1987.
Q	AK	Jansen et al., "Hepatic Endocytosis of Various Types of Mannose-terminated Albumins," <i>J. of Biological Chem.</i> 266(5): 3343-3348, 1991.
Q	AL	Kaplan et al., "Cloning and Expression of cDNA for Human Endonexin II, a Ca <sup>2+</sup> and Phospholipid Binding Protein," <i>J. Biolog. Chem.</i> 263(17): 8037-8043, 1988.

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	AB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>J</i>	AC	Kasina et al., "Development and Biological Evaluation of a Kit for Preformed Chelate Technetium-99m Radiolabeling of an Antibody Fab Fragment Using a Diamide Dimercaptide Chelating Agent," <i>The Journal of Nuclear Medicine</i> 32(7): 1445-1451, 1991.
<i>s</i>	AD	Kasina et al., "Preformed Chelate TC-99m Radiolabeling Of r-Annexin V For Arterial Thrombus Imaging," <i>Journal of Nuclear Medicine</i> 37(Suppl. 5): 29P., 1996.
<i>d</i>	AE	Knight et al., "Thrombus Imaging with Technetium-99m Synthetic Peptides Based upon the Binding Domain of a Monoclonal Antibody to Activated Platelets," <i>The Journal of Nuclear Medicine</i> 35(2): 282-288, 1994.
<i>t</i>	AF	Koblick et al., "Current Status of Immunoscintigraphy in the Detection of Thrombosis and Thromboembolism," <i>Seminars in Nuclear Medicine XIX</i> (3): 221-237, 1989.
<i>o</i>	AG	Krantz et al., "Attachment of Thioglycosides to Proteins: Enhancement of Liver Membrane Binding," <i>Biochem. 15</i> (18): 3963-3968, 1976.
<i>t</i>	AH	Law et al., "A Microplate Method for the Determination of Amino Groups in Monoclonal Antibodies," <i>Hybridoma 9</i> (4): 397-399, 1990.
<i>d</i>	AI	Lee et al., "2-Imino-2-methoxyethyl 1-thioglycosides: New Reagents for Attaching Sugars to Proteins," <i>Biochem. 15</i> (18): 3956-3962, 1976.
<i>t</i>	AJ	Lee et al., "New Synthetic Cluster Ligands for Galactose/N-Acetylgalactosamine-specific Lectin of Mammalian Liver," <i>Biochem. 15</i> (18): 4255-4261, 1984.
<i>z</i>	AK	Lee et al., "Preparation of Cluster Glycosides of N-acetylgalactosamine That Have Subnanomolar Binding Constants Towards the Mammalian Hepatic Gal/GalNAc-specific Receptor," <i>Glycoconjugate J. 4</i> : 317-328, 1987.
<i>b</i>	AL	Lister-James et al., "Tc-99m P748. A Receptor-Binding Techtilde™ for Imaging Activated Platelets," <i>The Journal Of Nuclear Medicine 36</i> (5):p. 16P, Abstract No. 57, 1995.

EXAMINER

*H. May*

DATE CONSIDERED

*9/25/02*

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	AB					

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<i>J</i>	AC	Lister-James et al., "Tc-99m P829: A Somatostatin Receptor-Binding Techtilde™ for Imaging Somatostatin Receptors In Vivo," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 91P, Abstract No. 370, 1995.
<i>D</i>	AD	Liu et al., "Labeling IIb/IIIa Hynictides with Tc-99m Using Aminocarboxylates as Co-Ligands," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 16P, Abstract No. 56, 1995.
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<i>V</i>	AG	Mattes, "Biodistribution of Antibodies After Intraperitoneal or Intravenous Injection and Effect of Carbohydrate Modifications," <i>J. Natl. Canc. Instit.</i> 79(4):855-863, 1987.
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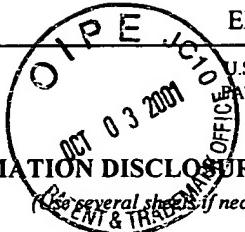
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## INFORMATION DISCLOSURE STATEMENT

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<i>do</i>	AC	Moyer et al., "Development of a White Blood Cell Specific Technetium-99m Imaging Agent from PF-4 for Detecting Infection," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 161P, Abstract No. 730, 1995.
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<i>do</i>	AG	Ponpipom et al., "Cell Surface Carbohydrates for Targeting Studies," <i>Can. J. Chem.</i> 58: p. 214, 1980.
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<i>do</i>	AJ	Ravant et al., "Use of Annexin-V to Demonstrate the Role of Phosphatidylserine Exposure in the Maintenance of Haemostatic Balance by Endothelial Cells," <i>Biochem. J.</i> 282, 7-13, 1992.
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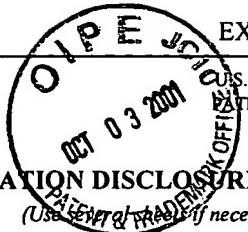
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AF	Sharon et al., "Carbohydrates in Cell Recognition," <i>Scientific American</i> 268(1): 82-89, 1993.
AG	Stratton et al., " <sup>111</sup> In Platelet Imaging of Left Ventricular Thrombi," <i>Circulation</i> 81(4): 1182-1189, 1990.
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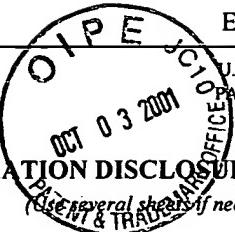
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bo	AC	Stratton et al., "The Effects of Antithrombotic Drugs in Patients with Left Ventricular Thrombi: Assessment with Indium-111 Platelet Imaging and Two-Dimensional Echocardiography," <i>Circulation</i> 69(3): 561-568, 1984.
fa	AD	Stratton, "Common Causes of Cardia Emboli-Left Ventricular Thrombi and Atrial Fibrillation," <i>The Western Journal of Medicine</i> 151(2): 172-179, 1989.
fo	AE	Tait et al., "Chromosomal Localization of the Human Gene for Annexin V (Placental Anticoagulant Protein I) to 4q26→q28," <i>Cytogenet. Cell Genet.</i> 57: 187-192, 1991.
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fo	AG	Tait et al., "Phospholipid Binding of Annexin V: Effects of Calcium and Membrane Phosphatidylserine Content," <i>Archives of Biochemistry and Biophysics</i> 298(1): 187-191, 1992.
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fo	AI	Tait et al., "Placental Anticoagulant Proteins: Isolation and Comparative Characterization of Four Members of the Lipocortin Family," <i>Biochem.</i> 27(17): 6268-6276, 1988.
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AE	Tollehaug, "Binding and Internalization of Asialo-glycoproteins by Isolated Rat Hepatocytes," <i>Int. J. Biochem.</i> 13: 45-51, 1981.
AF	Vallabhajosula et al., "Tc-99m-P748: Activated Platelet Specific Techtide™ for Imaging Thrombus: Comparison with In-111-Platelets in a Canine of DVT," <i>The Journal Of Nuclear Medicine</i> 36(5):p. 103P, Abstract No. 417, 1995.
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AL	Verstraete, "The Diagnosis and Treatment of Deep-vein Thrombosis," <i>The New England Journal of Medicine</i> 329(19): 1418-1419, 1993.

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<i>AS</i>	AC	Wall et al., "The Galactose-specific Recognition System of Mammalian Liver: the Route of Ligand Internalization in Rat Hepatocytes," <i>Cell</i> 21: 79-93, 1980.
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<i>S</i>	AE	Weigel, "Chapter 5, Endocytosis and Function of the Hepatic Asialoglycoprotein Receptor," <i>Subcellular Biochemistry Volume 19, Endocytic Components: Identification and Characterization</i> , Bergeron et al. (eds), Plenum Press, New York, pp. 125-161, 1993.
<i>S</i>	AF	Weinmann et al., "Deep-vein Thrombosis," <i>The New England Journal of Medicine</i> 331(24): 1630-1641, 1994.
<i>S</i>	AG	Wells et al., "Accuracy of Clinical Assessment of Deep-vein Thrombosis," <i>The Lancet</i> 345: 1326-1330, 1995.
<i>S</i>	AH	Worsley et al., "Role of Radionuclide Imaging in Patients with Suspected Pulmonary Embolism," <i>Nuclear Medicine</i> 31(4): 849-858, 1993.
	AI	
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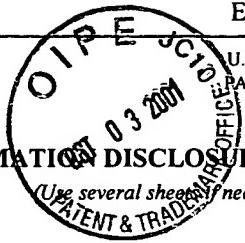
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